

LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P598697

Luminaire Tested: **IFLD-L-SA7D-735-U-SLR**

Issue Date: 05/03/2022

Tested By:

Approved By:



Cooper Lighting Solutions laboratories have been accredited by National Voluntary Laboratory Accreditation Program (NVLAP) that it adheres to the requirements of ISO/IEC 17025:2005 and appropriate IESNA test methods. This report must not be used to claim product certification, approval or endorsement by NVLAP, NIST or any agency of the Federal Government. Results contained in this report are valid for luminaire sample tested, as supplied by requestor. Information related to the luminaire tested has been supplied by requestor and can affect the validity of the test results. Report shall not be reproduced except in full without approval of Cooper Lighting Solutions Lighting Laboratory. Test performed at address noted above.

Test Information

Test Method: LM-79-08
 Report Number: P598697
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/03/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-L-SA7D-735-U-SLR
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLR distribution lens
 Light Source: (112) 3500K CCT, 70 CRI LEDS
 Ballast/Driver: ELECTRONIC DRIVER

Summary

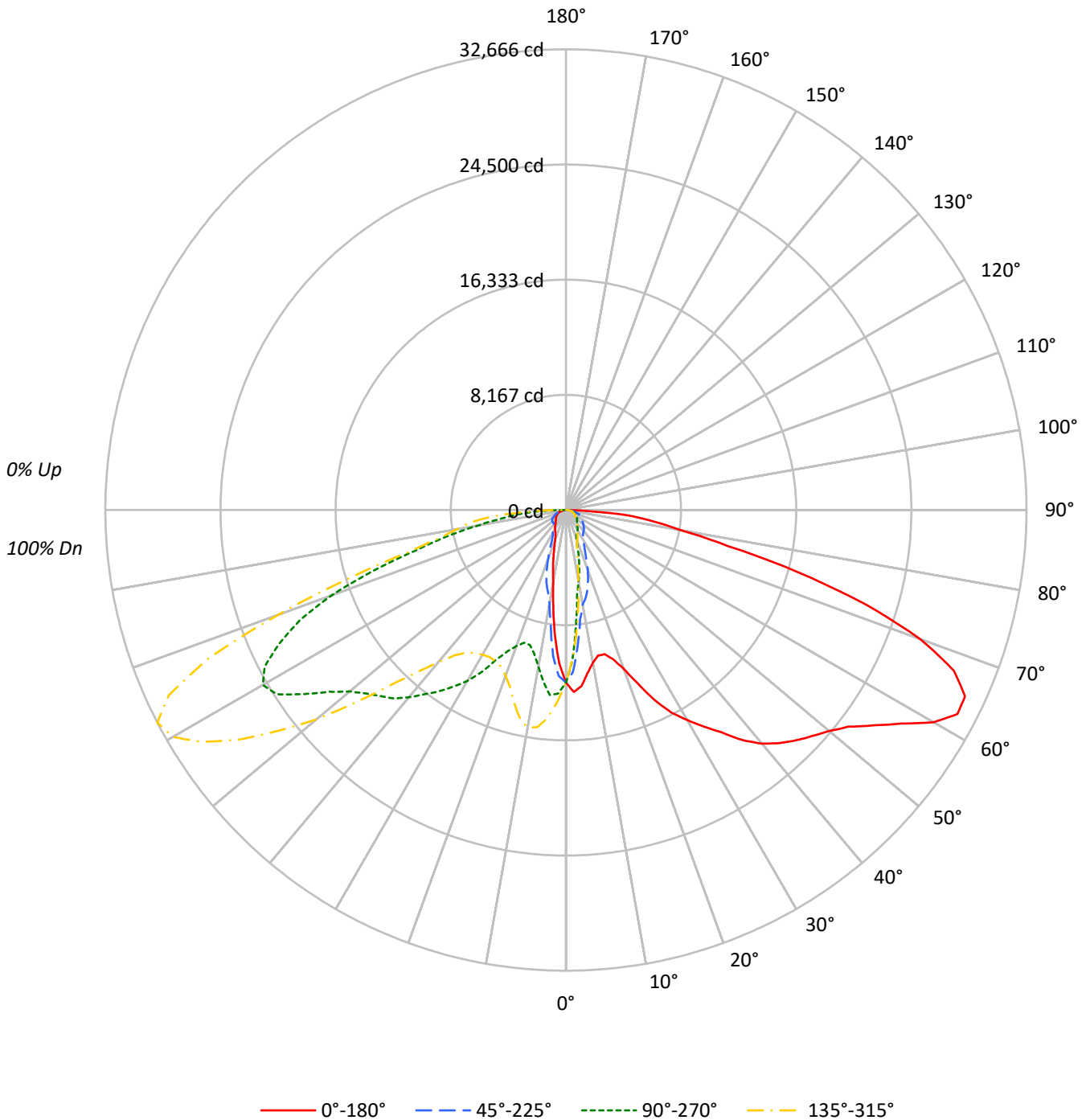
Lumens per Lamp: N/A
 Luminaire Lumens: 40922.0 lumens
 Efficiency: N/A
 Efficacy: 96.8 lumens/watt
 Spacing Criteria (0/90/45): 1.13 / 0.53 / 0.8
 Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
 CIE Type: Direct

Input Watts (W): 422.6
 Input Voltage (V): 120
 Input Current (Ain): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 25 FT

Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	GONIO 1 IN0055	4/22/2021	10/22/2021
Power Meter	XITRON 2801 IN0197	12/1/2020	12/1/2021
AC Power Source	CHROMA 61505 IN0196	12/1/2020	12/1/2021
DC Power Supply	AGILENT E3634A IN0198	11/30/2020	11/30/2021
Room Thermometer	ONSET IN0143	12/1/2020	12/1/2021

TEST NUMBER: P598697
CATALOG NUMBER: IFLD-L-SA7D-735-U-SLR

Luminous Intensity Polar Plot



TEST NUMBER: P598697
 CATALOG NUMBER: IFLD-L-SA7D-735-U-SLR

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	105	99	94	89	102	97	92	87	92	88	84	88	85	82	85	82	79	85	82	79	77
2	93	83	74	67	90	81	73	66	77	70	64	73	68	63	70	65	61	70	65	61	59
3	83	70	60	52	80	68	59	51	65	57	50	62	55	49	59	53	48	59	53	48	46
4	74	60	49	41	72	59	49	41	56	47	40	53	46	40	51	44	39	51	44	39	36
5	68	52	42	34	65	51	41	34	49	40	33	47	39	33	45	38	32	45	38	32	30
6	62	46	36	28	60	45	35	28	43	34	28	41	34	28	40	33	27	40	33	27	25
7	57	41	31	24	55	40	31	24	39	30	24	37	29	24	36	29	23	36	29	23	21
8	53	37	28	21	51	36	27	21	35	27	21	34	26	21	32	26	20	32	26	20	18
9	49	34	25	19	47	33	24	18	32	24	18	31	23	18	30	23	18	30	23	18	16
10	46	31	22	17	44	31	22	17	29	22	16	28	21	16	28	21	16	28	21	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	65790	65790	65790	65790
5°	67706	44027	48097	71128
10°	60068	27976	28256	61472
15°	58953	19842	18793	55137
20°	68541	12551	12649	58736
25°	88146	10777	10472	69439
30°	106823	10214	9576	86927
35°	126433	8999	8661	103036
40°	151918	8540	7939	121727
45°	175788	8470	7688	141907
50°	204128	8601	7741	167575
55°	249804	8835	7872	213499
60°	323973	8846	8293	267029
65°	397683	8939	8503	285835
70°	420814	9429	8891	278297
75°	354233	9969	8900	227136
80°	257354	11675	9022	196331
85°	272761	16914	7398	204044

TEST NUMBER: P598697
 CATALOG NUMBER: IFLD-L-SA7D-735-U-SLR

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	946.1	2.3
10°-20°	1979.9	4.8
20°-30°	2853.3	7.0
30°-40°	4107.6	10.0
40°-50°	5834.6	14.3
50°-60°	8388.5	20.5
60°-70°	9691.4	23.7
70°-80°	5487.5	13.4
80°-90°	1633.1	4.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5779.3	14.1
0°-40°	9886.9	24.2
0°-60°	24110.0	58.9
0°-90°	40922.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	40922.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	12224	12224	12224	12224	12224	
5°	12532	8149	8903	13166	12532	1137
15°	10581	3561	3373	9896	10581	3111
25°	14844	1815	1763	11693	14844	6890
35°	19244	1370	1318	15682	19244	12213
45°	23096	1113	1010	18644	23096	17883
55°	26623	942	839	22753	26623	24111
65°	31228	702	668	22445	31228	29945
75°	17035	479	428	10923	17035	18075
85°	4417	274	120	3304	4417	4399
90°	0	0	0	0	0	

TEST NUMBER: P598697
 CATALOG NUMBER: IFLD-L-SA7D-735-U-SLR

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12224.2	12224.2	12224.2	12224.2	12224.2	12224.2	12224.2	12224.2	12224.2	12224.2	12224.2
2.5°	12909.0	12891.9	12789.1	12463.8	12121.4	11796.1	11488.0	11162.7	10991.5	10786.0	10700.4
5°	12532.3	12498.1	12207.0	11488.0	10854.5	10169.7	9587.6	9125.3	8748.7	8372.0	8235.0
7.5°	11676.3	11624.9	11282.5	10289.5	9365.0	8474.7	7772.8	7173.6	6677.1	6454.5	6197.7
10°	10991.5	10905.9	10460.7	9365.0	8166.6	7276.3	6814.0	6403.1	5975.1	5615.6	5238.9
12.5°	10563.4	10460.7	9998.5	8714.4	7550.2	6882.5	6403.1	5940.9	5410.1	4965.0	4554.1
15°	10580.6	10460.7	9895.7	8543.2	7396.1	6540.1	5872.4	5238.9	4622.6	4126.1	3663.8
17.5°	11077.1	10923.0	10323.8	8782.9	7276.3	6095.0	5204.7	4382.9	3680.9	3150.2	2773.5
20°	11967.3	11864.6	11179.8	9142.4	7156.4	5615.6	4519.9	3526.9	2790.7	2379.8	2225.7
22.5°	13302.8	13182.9	12446.7	9690.3	7122.2	5187.6	3783.7	2773.5	2242.8	2071.6	1986.0
25°	14843.6	14621.0	13936.2	10614.8	7190.7	4793.8	3184.4	2294.2	2003.1	1883.3	1831.9
27.5°	16179.0	16042.1	15271.6	11488.0	7224.9	4485.6	2773.5	2088.7	1866.2	1763.4	1729.2
30°	17189.1	17137.8	16384.5	12446.7	7139.3	4109.0	2516.7	2003.1	1866.2	1763.4	1660.7
32.5°	18199.3	18216.4	17411.7	13182.9	7019.5	3783.7	2277.0	1780.5	1643.6	1575.1	1592.2
35°	19243.6	19329.2	18644.4	13902.0	6762.7	3663.8	2105.8	1660.7	1540.9	1438.1	1386.8
37.5°	20561.9	20784.5	20116.8	14706.6	6505.9	3561.1	2020.2	1575.1	1455.3	1369.7	1301.2
40°	21623.4	22034.3	21640.5	15460.0	6334.6	3441.3	1951.8	1489.5	1403.9	1301.2	1249.8
42.5°	22410.9	22890.3	22753.4	16042.1	6334.6	3321.4	1883.3	1438.1	1369.7	1249.8	1181.3
45°	23095.8	23592.3	23575.2	16641.3	6471.6	3252.9	1797.7	1438.1	1335.4	1215.6	1147.1
47.5°	23712.1	24208.6	24379.8	17394.6	6694.2	3218.7	1694.9	1403.9	1335.4	1198.4	1095.7
50°	24379.8	24927.7	25441.3	18593.0	6968.1	3133.1	1626.5	1352.5	1352.5	1181.3	1061.5
52.5°	25235.9	25852.2	26793.8	20082.5	7242.0	2979.0	1523.7	1318.3	1352.5	1164.2	1027.2
55°	26622.6	27136.3	28368.9	21863.1	7584.5	2790.7	1438.1	1232.7	1284.0	1112.8	975.9
57.5°	28180.6	28625.7	29653.0	23232.7	7687.2	2551.0	1318.3	1147.1	1232.7	1061.5	907.4
60°	30098.1	30320.7	30320.7	23626.5	7344.8	2328.4	1232.7	1078.6	1112.8	1010.1	856.0
62.5°	31313.7	31313.7	30320.7	22907.4	6694.2	2140.1	1164.2	1010.1	975.9	941.6	804.7
65°	31228.1	31091.1	29618.7	20818.7	5940.9	2020.2	1095.7	924.5	873.2	856.0	753.3
67.5°	29790.0	29550.3	27547.1	17874.0	5153.3	1968.9	1027.2	838.9	804.7	770.4	684.8
70°	26742.5	26126.1	23660.8	14381.4	4382.9	1934.6	1010.1	770.4	736.2	701.9	633.5
72.5°	22325.3	21537.8	18473.2	11059.9	3680.9	1814.8	958.8	684.8	667.7	633.5	565.0
75°	17035.1	15579.8	12891.9	8457.6	2859.2	1575.1	821.8	599.2	599.2	582.1	513.6
77.5°	11744.8	10991.5	8988.3	6249.0	2088.7	1215.6	667.7	530.7	530.7	547.9	479.4
80°	8303.5	7601.6	6403.1	4485.6	1318.3	821.8	513.6	445.1	496.5	530.7	445.1
82.5°	6351.8	5838.1	4759.5	3270.0	770.4	565.0	393.8	359.5	428.0	462.3	376.7
85°	4417.1	3800.8	2414.0	2191.4	445.1	342.4	291.1	291.1	376.7	462.3	342.4
87.5°	1249.8	530.7	154.1	650.6	188.3	137.0	102.7	68.5	102.7	102.7	68.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P598697
 CATALOG NUMBER: IFLD-L-SA7D-735-U-SLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12224.2	12224.2	12224.2	12224.2	12224.2	12224.2	12224.2	12224.2	12224.2	12224.2	12224.2
2.5°	10614.8	10512.1	10512.1	10477.8	10495.0	10512.1	10495.0	10614.8	10666.2	10734.7	10871.6
5°	8149.4	8286.4	8183.7	8286.4	8423.4	8628.8	8680.2	8834.3	8851.4	8971.2	8902.7
7.5°	6043.6	6026.5	5940.9	6060.7	6437.4	6728.4	6865.4	6951.0	6968.1	6968.1	6882.5
10°	5119.1	4965.0	4810.9	4725.3	4759.5	5067.7	5170.4	5221.8	5187.6	5238.9	5170.4
12.5°	4382.9	4245.9	4023.4	3869.3	3766.5	3852.1	3954.9	4006.2	4040.5	4126.1	4194.6
15°	3561.1	3424.1	3287.2	3201.6	3116.0	3047.5	3133.1	3184.4	3270.0	3338.5	3372.8
17.5°	2705.1	2636.6	2568.1	2619.5	2619.5	2585.2	2619.5	2636.6	2670.8	2722.2	2705.1
20°	2191.4	2174.3	2157.2	2242.8	2311.3	2311.3	2345.5	2294.2	2277.0	2225.7	2208.6
22.5°	1951.8	1951.8	1968.9	2037.4	2105.8	2140.1	2140.1	2054.5	1968.9	1934.6	1951.8
25°	1814.8	1814.8	1866.2	1883.3	1917.5	1917.5	1934.6	1849.0	1797.7	1746.3	1763.4
27.5°	1712.1	1712.1	1729.2	1729.2	1746.3	1746.3	1763.4	1729.2	1660.7	1643.6	1643.6
30°	1643.6	1643.6	1626.5	1626.5	1626.5	1626.5	1643.6	1592.2	1558.0	1540.9	1540.9
32.5°	1575.1	1558.0	1540.9	1540.9	1523.7	1523.7	1540.9	1489.5	1472.4	1472.4	1472.4
35°	1369.7	1352.5	1369.7	1403.9	1403.9	1421.0	1421.0	1403.9	1369.7	1335.4	1318.3
37.5°	1284.0	1266.9	1266.9	1266.9	1301.2	1318.3	1335.4	1301.2	1249.8	1198.4	1198.4
40°	1215.6	1215.6	1198.4	1198.4	1198.4	1232.7	1266.9	1215.6	1147.1	1130.0	1130.0
42.5°	1164.2	1147.1	1130.0	1112.8	1095.7	1147.1	1181.3	1112.8	1078.6	1078.6	1078.6
45°	1112.8	1095.7	1078.6	1061.5	1044.4	1061.5	1095.7	1027.2	1010.1	1010.1	1010.1
47.5°	1061.5	1044.4	1010.1	993.0	975.9	975.9	1010.1	958.8	941.6	958.8	958.8
50°	1027.2	993.0	958.8	941.6	924.5	924.5	924.5	907.4	907.4	907.4	924.5
52.5°	993.0	958.8	907.4	890.3	873.2	873.2	873.2	873.2	856.0	873.2	890.3
55°	941.6	907.4	873.2	856.0	838.9	821.8	838.9	821.8	821.8	838.9	838.9
57.5°	873.2	838.9	804.7	804.7	787.6	787.6	804.7	787.6	787.6	804.7	804.7
60°	821.8	787.6	753.3	753.3	736.2	753.3	770.4	753.3	753.3	753.3	770.4
62.5°	753.3	736.2	701.9	701.9	701.9	701.9	719.1	701.9	719.1	719.1	719.1
65°	701.9	667.7	650.6	650.6	650.6	650.6	684.8	650.6	667.7	667.7	667.7
67.5°	650.6	616.3	599.2	599.2	599.2	599.2	633.5	599.2	616.3	633.5	616.3
70°	599.2	565.0	547.9	547.9	547.9	547.9	565.0	547.9	547.9	565.0	565.0
72.5°	530.7	513.6	496.5	496.5	479.4	496.5	513.6	496.5	496.5	496.5	496.5
75°	479.4	462.3	462.3	445.1	445.1	445.1	462.3	428.0	428.0	428.0	428.0
77.5°	445.1	410.9	410.9	410.9	393.8	410.9	393.8	359.5	359.5	359.5	359.5
80°	376.7	342.4	359.5	359.5	342.4	342.4	325.3	291.1	291.1	291.1	291.1
82.5°	308.2	273.9	291.1	291.1	291.1	291.1	256.8	239.7	222.6	205.4	205.4
85°	273.9	222.6	256.8	256.8	239.7	239.7	171.2	171.2	137.0	137.0	119.8
87.5°	51.4	34.2	68.5	85.6	85.6	102.7	68.5	85.6	51.4	34.2	34.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P598697
 CATALOG NUMBER: IFLD-L-SA7D-735-U-SLR

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	12224.2	12224.2	12224.2	12224.2	12224.2	12224.2	12224.2	12224.2	12224.2	12224.2	12224.2
2.5°	10854.5	11042.8	11299.6	11488.0	11779.0	12001.6	12344.0	12635.0	12909.0	13028.8	13148.7
5°	9108.2	9228.0	9621.8	9930.0	10392.2	10888.7	11505.1	12172.8	12857.6	13165.8	13525.3
7.5°	6814.0	7036.6	7259.2	7704.3	8269.3	9074.0	9861.5	10854.5	11813.3	12275.5	12891.9
10°	5290.3	5461.5	5718.3	6180.6	6711.3	7379.0	8320.6	9502.0	10649.1	11248.3	11881.7
12.5°	4245.9	4485.6	4828.0	5307.4	5923.7	6608.6	7293.4	8389.1	9724.5	10409.4	11128.4
15°	3441.3	3629.6	4006.2	4605.5	5324.5	6026.5	6745.5	7652.9	9108.2	9895.7	10751.8
17.5°	2739.3	2876.3	3218.7	3817.9	4537.0	5324.5	6146.3	7293.4	8902.7	9861.5	10871.6
20°	2225.7	2328.4	2551.0	2996.1	3680.9	4537.0	5564.2	6951.0	9022.6	10255.3	11488.0
22.5°	1951.8	1986.0	2088.7	2328.4	2893.4	3800.8	5033.5	6659.9	9245.2	10837.4	12498.1
25°	1763.4	1797.7	1831.9	1986.0	2311.3	3167.3	4571.2	6488.7	9724.5	11693.4	13662.3
27.5°	1643.6	1677.8	1694.9	1763.4	1986.0	2705.1	4177.4	6386.0	10375.1	12943.2	15100.4
30°	1540.9	1540.9	1592.2	1694.9	1849.0	2379.8	3835.0	6146.3	11059.9	13987.6	16230.4
32.5°	1455.3	1472.4	1540.9	1592.2	1694.9	2105.8	3492.6	5838.1	11676.3	14843.6	17343.2
35°	1301.2	1301.2	1318.3	1403.9	1540.9	1883.3	3184.4	5530.0	12018.7	15682.5	18336.2
37.5°	1198.4	1215.6	1249.8	1318.3	1438.1	1729.2	2927.6	5187.6	12378.2	16470.1	19500.4
40°	1130.0	1147.1	1181.3	1249.8	1369.7	1592.2	2705.1	4913.6	12754.9	17326.1	20750.2
42.5°	1078.6	1095.7	1130.0	1198.4	1301.2	1558.0	2465.4	4691.1	12977.5	18113.7	21931.6
45°	1027.2	1044.4	1095.7	1164.2	1249.8	1523.7	2328.4	4537.0	13063.1	18644.4	22873.2
47.5°	975.9	993.0	1044.4	1147.1	1249.8	1472.4	2277.0	4451.4	13131.5	19243.6	23626.5
50°	924.5	958.8	1027.2	1130.0	1266.9	1403.9	2242.8	4434.3	13525.3	20014.1	24345.6
52.5°	890.3	941.6	1010.1	1130.0	1249.8	1301.2	2225.7	4485.6	14312.9	21161.1	25372.8
55°	856.0	907.4	975.9	1130.0	1198.4	1215.6	2140.1	4571.2	15511.3	22753.4	26828.1
57.5°	821.8	856.0	941.6	1095.7	1130.0	1147.1	1968.9	4691.1	16709.8	24311.3	28317.6
60°	770.4	804.7	890.3	1095.7	1027.2	1078.6	1746.3	4725.3	17565.8	24807.8	28454.5
62.5°	719.1	753.3	838.9	1130.0	941.6	1010.1	1558.0	4605.5	17737.0	24088.8	27684.1
65°	667.7	701.9	770.4	941.6	873.2	941.6	1438.1	4280.2	17172.0	22445.2	26280.2
67.5°	616.3	650.6	701.9	770.4	787.6	856.0	1386.8	3766.5	15751.0	20407.8	24362.7
70°	547.9	582.1	633.5	684.8	701.9	804.7	1301.2	3270.0	13456.8	17685.6	22017.2
72.5°	496.5	513.6	565.0	599.2	633.5	736.2	1249.8	2859.2	10289.5	14312.9	17959.6
75°	428.0	428.0	479.4	513.6	547.9	650.6	1147.1	2379.8	7259.2	10923.0	13200.0
77.5°	359.5	359.5	393.8	428.0	462.3	565.0	975.9	1934.6	5033.5	8663.1	9570.5
80°	273.9	273.9	308.2	342.4	376.7	479.4	787.6	1421.0	3116.0	6334.6	6968.1
82.5°	188.3	188.3	239.7	256.8	273.9	376.7	599.2	975.9	1831.9	4571.2	4982.1
85°	102.7	102.7	137.0	154.1	188.3	273.9	445.1	684.8	1095.7	3304.3	3321.4
87.5°	17.1	17.1	51.4	51.4	85.6	137.0	256.8	376.7	616.3	1831.9	1164.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P598697
 CATALOG NUMBER: IFLD-L-SA7D-735-U-SLR

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12224.2	12224.2	12224.2	12224.2	12224.2	12224.2	12224.2	12224.2	12224.2	12224.2
2.5°	13371.2	13559.6	13576.7	13576.7	13491.1	13508.2	13268.5	13011.7	12926.1	12909.0
5°	14073.2	14569.7	14706.6	14775.1	14552.6	14210.2	13593.8	12926.1	12583.7	12532.3
7.5°	13936.2	14929.2	15460.0	15528.4	15083.3	14278.6	13200.0	12172.8	11779.0	11676.3
10°	13131.5	14467.0	15425.7	15665.4	15186.0	14158.8	12754.9	11556.4	11077.1	10991.5
12.5°	12566.6	13850.6	14792.3	15117.5	14895.0	14004.7	12532.3	11162.7	10683.3	10563.4
15°	12258.4	13439.7	14056.1	14158.8	14141.7	13765.0	12532.3	11248.3	10717.5	10580.6
17.5°	12515.2	13319.9	13405.5	13165.8	13302.8	13491.1	12806.3	11710.5	11196.9	11077.1
20°	13028.8	13268.5	12857.6	12498.1	12566.6	13165.8	13234.3	12583.7	12172.8	11967.3
22.5°	14107.4	13456.8	12515.2	12018.7	12070.1	12909.0	13799.3	13765.0	13405.5	13302.8
25°	15203.1	13987.6	12412.5	11830.4	11898.9	12857.6	14467.0	15083.3	14895.0	14843.6
27.5°	16418.7	14877.9	12481.0	11744.8	11830.4	12926.1	14929.2	16196.1	16230.4	16179.0
30°	17240.5	15305.9	12686.4	11847.5	11967.3	13097.3	15031.9	16863.9	17172.0	17189.1
32.5°	17925.3	15733.9	13114.4	12018.7	12224.2	13405.5	15305.9	17497.3	18182.1	18199.3
35°	18473.2	16213.3	13645.2	12326.9	12635.0	13919.1	15665.4	18096.5	19123.8	19243.6
37.5°	19175.1	16744.0	14261.5	12994.6	13337.0	14655.3	16298.9	18798.5	20236.6	20561.9
40°	19928.5	17274.7	15151.8	14073.2	14569.7	15751.0	17017.9	19586.0	21178.3	21623.4
42.5°	20767.4	17839.7	16161.9	15528.4	16281.8	17137.8	17839.7	20305.1	21897.3	22410.9
45°	21589.2	18524.6	17634.3	17514.4	18353.4	18781.4	18644.4	20818.7	22582.2	23095.8
47.5°	22171.3	19517.6	19414.8	20133.9	20921.5	20698.9	19586.0	21195.4	23147.1	23712.1
50°	22702.0	20750.2	21657.6	23061.5	23540.9	22787.6	20596.2	21709.0	23746.4	24379.8
52.5°	23489.6	22068.5	23968.9	25715.2	26177.5	24979.0	21691.9	22547.9	24670.9	25235.9
55°	25098.9	23558.0	26382.9	28386.1	28471.7	26982.2	23164.3	23968.9	25972.0	26622.6
57.5°	26896.6	25389.9	28300.5	30594.6	30560.4	28985.3	24825.0	25886.4	27735.5	28180.6
60°	28523.0	27239.0	30389.2	32169.7	32084.1	30440.5	26759.6	28060.8	29755.7	30098.1
62.5°	29481.8	28916.8	31313.7	32666.2	32340.9	30919.9	28403.2	29995.4	31193.8	31313.7
65°	29327.7	29875.6	30235.1	31074.0	30611.7	29584.5	29207.9	31228.1	31347.9	31228.1
67.5°	28163.5	29327.7	27273.2	27358.8	27119.1	26246.0	27958.0	30902.8	30081.0	29790.0
70°	26400.1	26485.7	22804.7	21726.1	22102.8	20904.3	23986.0	28368.9	27102.0	26742.5
72.5°	23472.4	22410.9	17240.5	16144.8	16709.8	15853.7	19243.6	24722.2	23489.6	22325.3
75°	19688.8	17754.1	13131.5	11573.6	11864.6	11830.4	14912.1	20425.0	18199.3	17035.1
77.5°	15254.5	13833.5	9690.3	9091.1	8782.9	8851.4	10409.4	15186.0	13200.0	11744.8
80°	11145.6	9673.2	7498.9	7841.3	7670.1	7259.2	7293.4	10169.7	9176.7	8303.5
82.5°	7704.3	6882.5	6077.8	6865.4	6454.5	5821.0	5684.1	7327.6	6882.5	6351.8
85°	5170.4	5666.9	4828.0	5256.0	4554.1	4194.6	5341.6	6129.2	4947.9	4417.1
87.5°	3372.8	5187.6	3475.5	2636.6	1506.6	2020.2	3270.0	4023.4	2311.3	1249.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)